	GC/MS Data Auditing Check Sheet Laboratory Name: Audit Date(s):					
Method: Surveyor: 8/05					Rev. 3,	
Hard Copy Data Review		Yes	No	Comments		
Pro	ficiency Samples:					
1.	Report date:					
2.	PE successful?					
<u>Cali</u>	bration:					
1.	Standard Information					
	-Analysis date:					
	-Analyst:					
	-Instrument ID:					
	-Software type:					
	-File names:					
2.	Quantitation Report and Chromatogram Review					
	-Does the lab have adequate hard copy data?					
	-Are all standards run the same day/batch? (Check Acquired Times)					
	-Is the method update time the same for each?					
	-Is the chromatogram info the same as the quant. reports (i.e. same file names, acquisition times, method update times, <u>print time</u>)?					
	-Is the chromatogram printed using a scale that is visible?					
	-Do the standards have the proper sensitivity?					
	-Do the standard peaks have acceptable separation?					
	-No significant contamination?					

GC/	MS Data Auditing Check	x Sheet				
Laboratory Name:			Audit Date(s):			
Meth	od:	Surveyor:			Rev. 3,	
8/05						
	-If any sample is found positive for lab analyze a trip blank to show the contaminated with phthalates from HCL if used for preservation or the during sampling? (IU#29, paragra	hat samples were not in the bottle caps, the ne latex gloves worn				
	-Are the peaks properly ID'd (at l	east two ions used)?				
	-Do the peak responses on the quathose of the calibration summary calculate a few-especially manual	report (hand				
	-Do the calibration levels support reporting levels (check cal. level sample vs. MDLs)?	•				
	-Were sample dilutions applied to correctly?	calculations				
	-Are reference spectra correct cor	mpared to NIST?				
3.	Calibration Method Information					
	-Were an adequate number of call used based on the calibration range model used?					
	-Quantitation method file name:					
	-Calibration type (i.e. linear, RF,	etc.):				
	-Same for all compounds?	,				
	-Was the calibration criter compound (i.e. RSDs)?	ria met for each				
	-"force thru the origin"?					
	-Were data points eliminated from	n the calibration?				
	-If yes, why?:				_	
	-Was this done appropriat	ely?				
	-Were internal standards properly	assigned?			-	
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GC/MS Data Auditing Check Sheet		
Laboratory Name:	Audit Date(s):	
Method: Surveyor:		Rev. 3,
8/05		
-Was the calibration standard validated by a secondary source standard?		
-Was the run time appropriate, i.e., 35-45 min?		
Attach photo copy documentation of any areas of concern		
Sample Information:		
-Sample date/time(from COC):		
-Were the samples properly preserved?		
-Were preservation checks documented?		
Final Report Information:		
-Does the final report have the Arizona license noted?		
-Is the report signed by the laboratory director or designee?		
-Does the lab report show all flags for failed QC?		
Sample Preparation Procedures:		
-Extraction method:		
-Extraction date/time:		
-Did the sample meet the extraction hold time?		
-Is the extraction documentation correct and complete?		
-Was the extraction acceptable (refer to check sheets or hand notes)?		
-Was sample cleanup performed?		
Attach photo copy documentation of any areas of concern		
Sample Analysis:		
-Sample ID:		

GC/MS Data Auditing Check Sheet		
Laboratory Name:	Audit Date(s):	
Method: Surveyor:	· , ,	Rev. 3,
8/05		
-Analysis date/time:		
-Was the sample hold time met?		
-Was the proper QC run with the sample batch?		
-Was the QC at the proper concentrations?		
-Was the appropriate QC (including MS tune and GC performance checks) criteria met? If not, was it properly documented?		
-Was the background subtracted appropriately?		
-Do all low level QC checks have adequate sensitivity?		
-Does the hard copy data correspond to the sequence report?		
-Are there any major breaks in the acquisition times?		
-Do all the samples/QC in the batch have the same method update time?		
-Do all chromatograms have corresponding information to the respective Quant Report (i.e. same file names, acquisition times, method update times, same RTs, <u>print time</u>)?		
-Are the response factors of the samples the same as from the calibration (calculate a few)?		
-Are the chromatograms printed using a scale that is visible?		
-Do all samples/QC in the batch have adequate peak separation?		
-No significant contamination or matrix interference?		
-Are the peaks properly ID'd (at least two ions used)?		
-Are all the peaks integrations appropriate and		

GC/MS Data Auditing Check Sheet				
Laboratory Name: Surveyor:		Audit Date(s):		
Method: Surveyor:				Rev. 3,
8/05	•	1		
consistent?				
-Do the analytical results on the Quant Report match those on the final report?				
-If 2-chloroethylvinyl ether was reported to client, was an unacidified vial used for analysis?				
-Were the required number of internal and/or surrogate compounds analyzed? If so were the required compounds used?				
-Did internal standard and/or surrogate areas meet the appropriate QC criteria?				
-Were all QC requirements regarding retention times met?				
-Can the reported values be verified by calculation				
-If in-house limits are used, are they available for review?				
-Was the run time appropriate, i.e., 35-45 min?				
Attach photo copy documentation of any areas of concern				
Laboratory Review	Yes	No	Comments	
-Was the analyst(s) available for interviewing?				
-Did the analyst(s) provide adequate response to the concerns found from the hard copy data review?				
-Was the analyst(s) following proper procedure? -If no, see notes or check sheets. -If no, is SOP correct? -If no, is the QAP correct?				
-Did the lab have the proper equipment and				

GC/	MS Data Auditing Check Sheet			
Laboratory Name:		Audit Date(s):		
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8/05	instrumentation?	1	l	
	-Did the lab have the proper reagents?			
	-Did the lab have adequate documentation such as run logs, maintenance logs, temperature logs and standard logs?			
	-If major instrument maintenance was performed, i.e., changing and replacing column, MS source, changing repeller, lens, electron multiplier, injector port, was an initial calibration and MDL study performed immediately afterwards?			
	-Were samples and standards stored within required temperature ranges, i.e. -10^0 or less for methanol standard solutions?			
	-Were samples, extracts stored separately from standards?			
	-Was Class A volumetric glassware used to measure stock standard solutions, aqueous samples and extracts?			
	-Was a properly calibrated balance checked with weights that encompassed the measured weight used to weigh solid samples?			
Electi	onic Data Review:	Yes	No	Comments
1.	Mint Miner Review (If Applicable) -Are any problems identified?			
<u>In-La</u>	b Review:			
2.	High and low standard			
	-Does the low standard have acceptable sensitivity			
	-Do all compound peaks have adequate separation?			
	-Do all compound peaks have appropriate and			

GC/MS Data Auditing Check Sheet Laboratory Name: Surveyor:			
		Audit Date(s)):
			Rev. 3,
8/05			
consistent integration?			
3. Initial CCV			
-Do all the peaks have adeq	uate sensitivity?		
-Do all the peaks have adeq	uate separation?		
-Do all the peaks have appr integration?	opriate and consistent		
-Can the laboratory reprint chromatogram that matches	- •		
-If yes, Attach.			
-If no, why?			
4. Other electronic data conce copy review):	rns (Identified in the hard		
Attach photo copy documentation of	of any areas of concern		
Training: -If significant problems are noted a training files show that they were p			